



## TRAFFIC SIGNALS

Traffic signals can improve journeys for all travellers. They help balance the flow of traffic across a complex or busy intersection; they maintain a right of way for drivers approaching from a less dominant corridor that might have lower traffic volumes or a different speed environment; where they include a signal phase that accommodates people walking or cycling, they improve safety by reducing conflict with drivers.

Designing or reviewing traffic signals is a specialist discipline. As well as considering the practical and legal implications of signal phasing options, there is a need to ensure that the layout, design and operation meet the safety and efficiency needs of all people moving through the intersection.

### WHAT WE DO

The ViaStrada team includes several traffic signals experts, often partnering with technical expert Bill Sissons from Advanced Traffic Solutions. Between us, we've designed, reviewed, audited or optimised hundreds of signalised intersections.

We work on behalf of central government agencies, road controlling authorities and developers. We take your project objectives and turn them into a workable scheme. Our skills include:

- developing schemes to a detailed design stage for traffic signals, complete with controller information sheet and software
- integrating cycleways into signalised intersections
- developing design guidance for NZ Transport Agency Waka Kotahi for cycle and pedestrian treatments at traffic signals
- working with road controlling authorities (RCAs) on official trials for directional cycle signals and, soon, Barnes Dance phases that include cyclists
- auditing signalised intersections nationwide.



### PROJECTS

**Separated cycleways and filter turning | New Plymouth District Council / NZTA**

2023–24 | Innovative design allows filter turning for drivers across separated cycleways despite the current legislative framework

**Northcote Road, Christchurch | Marian College**

2022–23 | New signalised mid-block crossing adjacent to a T-intersection for a new school

**Waimakariri Junction | Developer**

2021–23 | Scheme and detailed design of a new signalised intersection for a retail development in Kaiapoi, North Canterbury

**Glenview bus hub | Hamilton City Council / NZTA**

2021–23 | Relocate and redesign an existing mid-block crossing to facilitate a bus hub

**Tennyson intersections | Napier City Council**

2021–23 | Upgrades of existing signalised intersections either side of a KiwiRail level crossing

**Various locations | Christchurch City Council**

Ongoing | NZTA compliant road safety audits of proposed signalised intersections with different speed environments and traffic volumes



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